## Attorney Docket No. 2003P01328WOUS

## IN THE CLAIMS:

Please cancel Claims 1 - 12 and add new Claims 13 - 32 as follows:

## **AMENDMENTS TO THE CLAIMS:**

## 1-12 (Canceled)

- 13. (New) A gas burner for liquid fuel, especially vegetable oil, comprising: an evaporator for evaporating the liquid fuel; an evaporation chamber limited by a boundary wall; a gas discharge channel for producing a gas jet formed in said boundary wall; and said evaporator boundary wall constructed at least as a double-walled structure with an inner wall and an outer wall.
- 14. (New) The gas burner according to claim 13, including said inner wall and said outer wall of said evaporator formed from different materials.
- 15. (New) The gas burner according to claim 14, including said inner wall of said evaporator formed from a chemically inactive material, such as stainless steel.
- 16. (New) The gas burner according to claim 15, including said outer wall of said evaporator formed from a heat-conductive material, such as copper.
- 17. (New) The gas burner according to claim 13, including said inner wall of said evaporator formed from a chemically inactive material, such as stainless steel.
- 18. (New) The gas burner according to claim 13, including said outer wall of said evaporator formed from a heat-conductive material, such as copper.
- 19. (New) The gas burner according to claim 13, including said gas discharge channel having an opening edge tapered from said evaporation chamber.

- 20. (New) The gas burner according to claim 19, including said tapered opening edge of said gas discharge channel constructed as substantially conical in shape enclosing a cone angle substantially between 50° and 70°.
- 21. (New) The gas burner according to claim 19, including said tapered opening edge connected to a constriction point formed in said gas discharge channel.
- 22. (New) The gas burner according to claim 21, including said constriction point of said gas discharge channel is constructed substantially as a hollow-cylindrical shape.
- 23. (New) The gas burner according to claim 13, including said gas discharge channel has an outlet opening edge constructed substantially as a conical shape enclosing a cone angle at least greater than about 15° to 20°.
- 24. (New) The gas burner according to claim 13, including said evaporator constructed as an evaporator tube.
- 25. (New) The gas burner according to claim 21, including said constriction point of said gas discharge channel constructed in said inner wall.
- 26. (New) The gas burner according to claim 25, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.
- 27. (New) The gas burner according to claim 21, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.

28. (New) A gas burner for liquid fuel, comprising:
the liquid fuel formed from vegetable oil;
an evaporator for evaporating said liquid fuel;
an evaporation chamber limited by a boundary wall;
a gas discharge channel for producing a gas jet formed in said boundary wall, said gas discharge channel having an opening edge tapered from said evaporation chamber;
said tapered opening edge connected to a constriction point formed in said gas discharge channel; and
said evaporator boundary wall constructed at least as a double-walled structure with an inner wall and an outer wall formed from different materials.

- 29. (New) The gas burner according to claim 28, including said evaporator constructed as an evaporator tube.
- 30. (New) The gas burner according to claim 28, including said constriction point of said gas discharge channel constructed in said inner wall.
- 31. (New) The gas burner according to claim 30, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.
- 32. (New) The gas burner according to claim 28, including a gas jet opening constructed in said outer wall having a flow cross-section larger than a flow cross-section formed in said constriction point.